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1: Biochem Biophys Res Commun. 1993 Apr 30;192(2):359-65.

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Department of Pathology, NY Univ Medical Center, NY 10016.

Apolipoprotein E (apo E) is associated with Alzheimer's beta-amyloid (A beta) in senile plaques. A beta is now known to be a normal soluble peptide (sA beta) found in the cerebrospinal fluid (CSF) and other biological fluids. We have used synthetic A beta peptides bound to affinity membranes in order to determine whether apo E or any other amyloid associated protein will bind to these membranes, when they are bathed in CSF. Under these conditions apo E, as well as another apolipoprotein, apolipoprotein J (Apo J), bound to the membranes. Using ELISA and ligand binding studies, we found a high avidity binding of A beta peptides to apo E. This suggests that apo E, as well as other related proteins may bind not only amyloid A beta but also sA beta. This interaction may be critical in amyloid formation.

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